Rec'd March 5th
Ans

My dear Engelmann

BOTANIC GARDEN, CAMBRIDGE, MASS.

Feb. 28 1875.

Having reached the evening of the last day of this long cold winter — and a bitter cold day it is — serve to the last. it is time I showed you some signs of life and interest. I have had a heavy time of it since I went to Washington 6 weeks ago. My right arm is still lame, and I have fits of coughing. But within the last 2 or 3 days I have felt some returning vigor and elasticity which I fear I had lost altogether.

Well, at length I

have done the Hydro=
phyllacea for Fl. N.
Amer.; and have only
to write them out for
Fl. California; and to
write out a little Cu=
cupectus, which I mean
to print in Proc. Am. Acad.
I am not sure which in
family I will take next
whether Gentianeae
or rather a bigger job,
in Scrophulariaceae
I guess the latter —
when I read Mimulus,
Gerardia, & Orthocarpus.

Your Gentianeae notes
came too late to be
added to my last Cu=
tria; they are now
kept back till I revise the

MISSOURI BOTA
GEORGE ENGE

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order — unless you will do that for me. In that family it is Cy=
Arnea to read.

So that little thing is Cicuta (Microcodia) quadrangularis! Well,

Miss I dont put pretend to know — and there is no use beginning to know — till you have settled them — we easy pile it sums.

BOTANICAL GARDEN
ENGELMANN PAPERS

You must do, at least the Californian Conifers — next summer.

When Shaw dies — go up & take charge of the establishment — make them give a good

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and provide a good as-
sistant, as well as gardener,
Let George take the
patients.

Thistles are anything
but pleasant to touch.

It is hard enough to have
those prickly-headed plum-
less ones in C. Drummondii —
— but to put in C. eriocephala
also too!!!!

Dr. send seeds of Physalis
lobata.

The full beard makes my
face look fuller; but I
am really thinner.

Watson is working very
industriously here at Scilla —
where he has made as many
mistakes as in Lupine!

My wife rather worn out,
but active. I have a sister
& 2 nieces with me this
winter — all invalids!

Ever, dear friend Yours, A. Gray

Rec'd March 6
An — 7

Dear Engelmann

BOTANIC GARDEN, CAMBRIDGE, MASS.

C March 3 187 +

Vat Kī (Prevl.) in Linnaea 3.8. p. 213. — just now — has made a Specularia Lindheimeri. or Lindl. 1846, no. 450.

451 is Dysospyros

I have not that number, I have yet?

Is it your Specularia leptocarpa. (which I have from E. Texas, but not from Lindheimer.) — or is it rather Lindheimer no. ~~451~~ 451 (Lindl. III, 1846.) In that case it is my Specularia (Campanopsis) yes

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Coloradensis (Campanula Cordiandensis Buckley) and the name may stand, my own being unpublished.

If convenient please see as to what Lidh. III, 456 is.

Yours ever,

A Gray

I have Specularia leptocarpa
Campylorea — Nutt
Prismatocarpus perfoliatus Nutt
Capnella leptocarpa Eng. Alpa
Mauvides Texas
Fort Gibson
Specularia Conferta Nutt
Prismicodon New York Nutt
Prismatocarpus Centro. Nutt
Louisiana NO

2. 1051

can give you Spain

Acd March 15
Ans 18

My Dear Dr G.

Gray

BOTANIC GARDEN, CAMBRIDGE, MASS.

12 March 1870

Thanks for your nice letter. So you can't be happy away from patients!

Well, we must get what we can out of you.

George should marry, and that soon — and have a house of his own. You ought to be seeing grandchildren, & you & Mrs. G. having the pleasure of them.

Mrs I had got a "451" for 450.

Well, Nathe is now Spearman & Lindsleyman my

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stand — thus, the real character has escaped him. It is better than S. Coronadensis, after "Campanula Coronadensis" Buckley.

I looked up these things nicely a year since again & wish I had printed results — Perhaps will add to a paper just gone to printer Conspectus Syndrophalacum.

I make a §1. Campylocera.

1. S. leptocarpa
2. S. (non Lindheimeri Vatke)

§ 2. Dysmicrocarpa.

3. S. biflora, Campanula biflora R. & Pav. & 50 other names — amongst them D. Californicum & natum Nutt. The spec. is very near S. falcata & idd Nutt.

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4. S. perplicata.

Scaphalveola cu. Do you carry me the fit Minuchus & Gerardia

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ENGELMANN PAPERS

le.?

Gentianaceae

Pray do up Euphrasia. You must have from me a late number of Bulandiers, which I suppose to be the Euphrasia divisorides. But I'll send you a list of those early numbers — which I have not.

Dichogamy manifest in Satbatia — likely in Euphrasia (protandrous) so di misplaisum yet seen.

Why not you do up Gentiana — either for

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H. N. Amer. direct. — or in a Scrippsis paper I can offer. Pity I should have to run thru all the mesh my hair de novo.

Hrasera. Gristada da did every thing badly. My mission of guess in Miss. a dozen or 20 years ad. assures pectiss. as on ship.

Rothrock means well, but is a bit loose

Cut my hair & beard cut — & a close shave & had clad wife & I again. ~~Sam~~ S. for a mill man — W. don't know where yet — change. Appalachicola. N. Al. ? while. Suppose, if time allows we come up River even to St. Louis?

Ever yours

A. Gray

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Rec^d April 23^d Ans May 13

Chattanooga April 21, 1875

My Dear Engelmann

I have been carrying about a letter from you; but I am too tired (from ascent of Dock out all) to respond to it now. I mean to write you from Washington — where we hope to pass a few days soon. — and tell you of all our travel — to Augusta, Savannah, Chattahoochee (a pilgrimage to Torreya taxifolia) Appalachicola — where we had a good rest and a nice time with good old Chapman — thence North.

St. Louis & N. Orl. must be left for next year. I should now be at home & at work again.

Reminded me to ask you about Pinus clausa of Chapman — which he did not publish. Can it be P. glabra? Looks most like P. inops. Young stems smooth

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Seeds remain fresh in cases
10 or 12 years old!

On Stone Mt., Geo., I
found – as Canby indicated
a little Isoetes, in pools
then dry. I send a little,
Have sent a turf to
Cambridge. Will you culti-
vate it?

I made 2 or 3 specimens
of Juncus Georgiana
in flower. Do you want.

BOTANICAL GARDEN
ENGELMANN PAPERS

Catarrh cured,
Throat well but
weak – a very little
sets it off.
Mrs. Gray pretty well,
but fatigued with the
climbing, etc. in car-
riage & very muggy road.

Yours
A. Gray

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Rec May 12th 1878
Ans May 13

Dear Engelmann

BOTANIC GARDEN, CAMBRIDGE, MASS.

May 8 1874

We have got home at length. — Pretty well

Chapman had, in Miss. a "Pinus clausa" so called because the cones keep closed & hold their seeds for many (8–12) years. He did not publish it.

He showed me trees of it at St. There is a cone (several years old) & a few leaves.

I thought it might be P. glabra — but the cones look diff. You must have better materials. What is it?

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GEORGE ENGELMA

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Shall I send you the Stone Mt. Violets to grow?

Ever yours

A. Gray

Give opposite

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Recd May 24th
Ans same day

Boulder Co May 20, 1892

My dear Engelmann

Your last is of May 13. — Thanks. I came home too soon. My throat has got bad again. Summer may cure it. But it was time to be at home again. I have set a growing printer on my part of the Flora of California. — Gamopetalae.

I broke off with Scrophulariaceae when I went away — I have now caught up correspondence & odd jobs, & go at them again, Gentianeae later.

We are in power. Mrs. Gray has lost her mother — stepmother — but she would not feel it mine if her own. Shall I send you some Linum Fœtes granulate?

As to the Pine. I pulled the leaves from my specimen; same true as the cone — I was going to send you all I took. But I thought it O. Ponderosa when I saw the trees

with Chapman. He will
get you plenty.
It takes time to com-
municate with Co. He
gets a mail only once a
week, — at evening, & the
mail goes off next morning.
So that he has a ~~week~~
week usually before he can
send a reply.
He is a good obliging
fellow at bottom. but
disheartened — has been
badly treated — is growing
old, & ~~incert~~ inert.
Says he writes to Pitcher,
I have not a word
from him since we left.
Keep poking at him
& he will stir,

MISSOURI BOT
GEORGE ENG

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Mutensia obliquifolia.
" lanculata
" alpina
are good M.

" Silene apiculata does
seem to flutter – but are
good in general.

BOTANICAL GARDEN
ENGELMANN PAPERS

Give me nos. & probably
Senna & I will name
Hendley's Bouvardia and
for you.
Look away at Erythrea.

" Juncus inductata quite
big" – I never knew
now, nor can tell what
is growing. Cut the
garden, I should die
soon if I took any more
thought about that.

Juncus Bufonius –
a specimen in flower
laid aside for you –
with some other things,

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I take it out & send it
now, by mail.

Ever Your
A Gray

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My Dear Engelmann

Rec'd July 9th

Ans same day

BOTANIC GARDEN, CAMBRIDGE, MASS.

July 5 1875

I am so hard driven that, for my life, I can only write just these letters that need answering on the spot. Others, that I lay by till evening or leisure comes I can rarely overtake. Some long I have been trying to overtake yours, & to write to you. I have good will, but small powers of performance.

Cuscuta & Dracaena matters I hope Watson has attended to. I hope you may get them straight at length.

Sargent has sent, long ago L. undulata seedings

I have forgotten & overlooked what you asked about your brothers Utah collections: what was it?

Do you mean to go & be a bel gard. Presidt at Detroit? Well, then come here, stay with us, you & Mrs. G. & you look up Euphrasia & Gentiana pneu.

If you will not, then what? I have got Brutta, & Verbenas and Adenum, and on the table it will be best generally to follow it.

In that case Oleaceae Apocynaceae, Asclepiadeae Scrophulariaceae & Gentianaceae come in early, and I must set at these as soon as I am done with Scrophulariaceae & while Compositae are going on printing – already 4 or more of them are in type.

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GEORGE ENGE

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I was remiss not to send you Euphorbia at once when you said you would have it. Shall I send now? Indeed I do. Can you take them in hand? Or, better, will you take them up there?

BOTANICAL GARDEN
ENGELMANN PAPERS

Nice things have just come from Lemmon — from an excursion into N. M. made — a new species, & very logical specimens & some light on the affinity.

Here is a list of Euphorbias that Watson S. Watson.

Now, here is for you Euphorbia misera from Cleveland, San Diego.

I hope you are well. I am in fine working order, & remain ever yours

A Gray

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I send you Torrey's paper.

Have you a copy of your Sci-lecture to send me — I lost it.

A. G.

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Aug 1875

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

187

Yes, I know that Solidago canadensis comes in.

I want specimens of the S. Jacobsii, let you find and it & Spilanthes oleracea Jacquini. ??

etc —

Can't see now about our Violets, but our cultivation is most unreliable now.

I thought Watson reported the Vicia as Beckianiana

Sorry for your gout, living at Cambridge would cure it, our gout here.

Ever yours

A Gray

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GEORGE ENGELMANN PAPERS

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Rec Sept 2d
Ans — 11th

My Dear Engelmann

BOTANIC GARDEN, CAMBRIDGE, MASS.

Aug. 29 187—

Compositae of Calif.,
Mt. all in type. Phrica-
cacea going in.
Having decided to follow
Stirk & Buckhaus,
order — which they have given
me — & I have partly in
sheets — Gutiferae come
early, & I am doing them
up — having the
Apocy.,
Asclepiad.
Then come
Polemoniaceae — which I can
do off hand. —
Hydrophyllaceae — Done.
Borraginaceae —
Convolvulaceae — And this

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brings me to ask you to or
Calif. Cuscuta for me
— & quick.

Gentianaceae are so few
in California, & the
Writer so close, that
I can do only the Cali-
fornian now.
I have done Erythraea,
but so hard when you
get at them.
Stigmas of all bifid —
thickish bilamellar; size no.
characters
Corolla — see sheet.
Gentians I am sure of.
G. amarella L. var. acuta.
need you keep var?
G. detonsa — near Andes &
Mexico.

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GEORGE ENGELMANN

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G. simplex, Green &
Lemmon both send it with
toothed corolla-lobes, more
or less. Small ①
not &c — diff. from G.
barbellata — which is,
I suspect ②. Have
you any not clearly
4?

NICAL GARDEN
MANN PAPERS

Of 4, & Plaited
corolla, we have only
G. Newberryi
G. Calycosa,
G. Septrion,
G. affinis,

What is your Gentiana
Rupicola founded on?

If from here, we must
have sent you all we
had of Davis' plant.

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For I find none here.

My last from you is of July 9. — I believe that Watson has answered all points in it.

The printer drives me hard now.

I write this Sunday evening! Wife away at Bradley — I alone — and healthy like the morning — though thin.

How are you?

Ever yours

A. Gray

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Rec Sept 6th 1875

Ans — 11th

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

Sept. 2. 187 5

Yours of 31st ult.

are of same arr.

Let me tell you mor. of our Calif. & Gentians.

& Drummondii.

* Extended sin. appendages, tortad or lacerate; seeds winged.

+ Low, 1-flowered; leaves with a auriculate-clasping sheath

G. Newberryi, n. sp.

G. setigera n. sp. — A few terminal rather long capillary setae, to the sinuses. — Kellogg & Stanford 840.

++ Taller, 1-many-flowered, &c.

G. affinis, — &

var. vulgata, G. Amarella Engelm in D. Shall I cite your syn.? I have it 3 or 4 times over, & put it into G. affinis, sens.

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* Sinus truncate; sub, nigher.

G. septum, &
var. humilis Engl.,
= G. Menziesii, Pisch.

You are right, I think.
~~but the~~ but the form
is striking.

—

G. calycina is beyond
the range. G. Parryi
differs only in smaller
calyx-lobes — most variable
char. & larger.

BOTANICAL GARDEN
UNKNOWN PAPERS

Thank you Trans

Ks —

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Rec Dec 1st (sent to Philadelphia as dead letter office!

My Dear E.,

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

Sept. 10

187 7

My Gentiana ell Qu into printer to-morr. — I can — for lack of time + only add one note to the Californian.

You note about stigmas was good + useful to me — But those of E. mucronata + some other European are not longer than broad — but they are not truncate as the American are.

As I can now send you a proof. I will not take up precious time now in writing details. But here is some material, you may like.

Collar tube in Euphorbia ~~lengthens~~ lengthens in and after anthesis.

The fruits + seeds you send — from Darby — are of E. Douglasii

Eastern specimens I can't look at in the present cramping.

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MICAL GARDEN
DURH PAPERS

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List of Fungi Lord D. —
was handed to Prof. Goodale.
I must wait till he comes
home to get it. — I lay
aside your request to remind
him — in 3 weeks —

Willows of White Mts. —
Lay aside them.

Otharcelus Lehr, & Dirvilla,
I make a note of.

I do hope you will have
none with rheumatism —
now —

The printer is pushing.
Pray give me Cuscuta
Calif. as soon as you can

Ever yours

Asa Gray

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Missouri Botanical Garden

Rec Sept 21 Sept. 18. 75

Dear Sir,

Cuscuta cuspidata is

rare & rotted.

About Gentiana barbel=

lata, I — now. Speci=

mens decision, but some from

Rattlesnake deceptive.

3.4 cuspidata 5 floriat 6 Ocean 7 Hyp

Cuscuta of Whipple,

expd. lie in my heart,

loose & unassorted. I dare

say you have them. Yes,

with me. Can you give

names?

They are all "East of Mississ to

Rio Grande" and so do not

concern California Botany

Abstract of what I have

from California accompanied

I am surprised I have

so little California material

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GEORGE ENGELM

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Kellogg & Burpee 78.
I have not
I have asked Eaton
to send it to you.

I see is also an
pure Lemon, lying
loose. I send you one
of it.

Yours ever,

A Gray

Dr Byron get me
the Bank note I
sent in my letter

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LMANN PAPERS

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Rec'd Octob 6th
Ans Oct 7
Rec'd Oct 18

Catal of Wood

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

Oct. 1 187 –

Thanks for your Mimulus, and the Miss. Cuscuta you mention to say —

Some outsider has sent this to be named, probably not the original collector — nor matters. I have no original to match it.

Brewer has sent from Antietam a small parcel of plants for you.

Shall I send on, or wait for something more. Cuspidium, 2 or 3 sp. Move Dito . . . .

Sargent is away — I shall have to ask him about the Yucca plants — I look after Dried plants here — and am sick of live ones — or indifferent about them, will tell him of the Rosa setigera respecting

Very sorry Mrs. E. has been ill — hope cool weather will put her well up.

Ever Yours

A. Gray

Want roots of Calycocarpum!

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GEORGE ENGELMANN PAPERS

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Rec Oct 25 1875
Ans 1st by
Regel

My Dear R.

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

22 Oct 187 7

I add a line – to say that I have kept back the 2 books about Abies & the Marcals now here for you – to await Palmer's daily expected envois, coming by express. – as I think your library is with A. gray, not Engelm. But what we now have shall be sent by return – mail – if you say so.

"Cicendia exaltata" Griss. is Gyn=throcea – stigma & everything. Gentiana is a blunder.

In these Gentianitzlen – I ~~have~~ distinguish tube, throat (the inflated part) & limb. But the distinctions are often shady,

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Gisekia describes his
Cicendia exaltata. —
"Filamenta ... tubo supra
medium inserta"
Can what specimen do
you find them at the
Museum?

BOTANICAL GARDEN
GELMONI PAPERS

We got Azolla now
from Patterson, of Oquawka
Ka — Ill.

—

Drewer concluded
not to give derivation
of generic names in his
book — a mistake, I
think. So young,
like the rest, muddled —

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I will have some
opera a Cuscuta —
Sheet (2 specimens mixed)
N.

A Gray

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Dear Engelmann — Rec Nov 2d Ans — 3d

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

Oct 13 1871

My letter 25 in

I state page Dr. Gray
may find the catalogue of
woods of Texas,

Palmer's things not come
yet, He generally has
notes. All notes & memoranda
shall be sent you.

"Cicendia exaltata" your
note & that misled me.
B to B. quadrangularis, when
I got sheets of Bentham, Hook. Gray
in Gen. Pl. I found that B.
had kept Microcala — on the
ground of stam. species & put
in a diff. subtribe from Cicen=
dia on account of undivided
peltate — capitate stigma. But
in examining I found the stigma
bifid in Calif. & S. Amer. plant
sometimes as he described it —
sometimes divided in petals

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always divisible. Some do. Styles in S. Amer. ~~often~~ split for drum. But this looks like a late splitting. I found the insertion of the stamens in the sinuses, too — as you describe.

I am going to send your note to Buchanan, to strengthen mine.

I think, tho, I will go back and follow him in adopting genus Microcala.

I want to compare in this regard, the insertion of stamens & the stigma in Microcala a Cicindia Philippinis, & Europe, but, oddly, I have not fit specimens. Have you? And will you look at them? Reichenbach, 17, t, 1045, does not show

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the stamens. But figures the style exserted (stigma depressed-capitate): perhaps there is dimorphism — (as in Menyanthes)

Neither Nelson nor I know of any Frasera or Swertia River in California —

Ever yours

A. Gray

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